

Fig. 1:

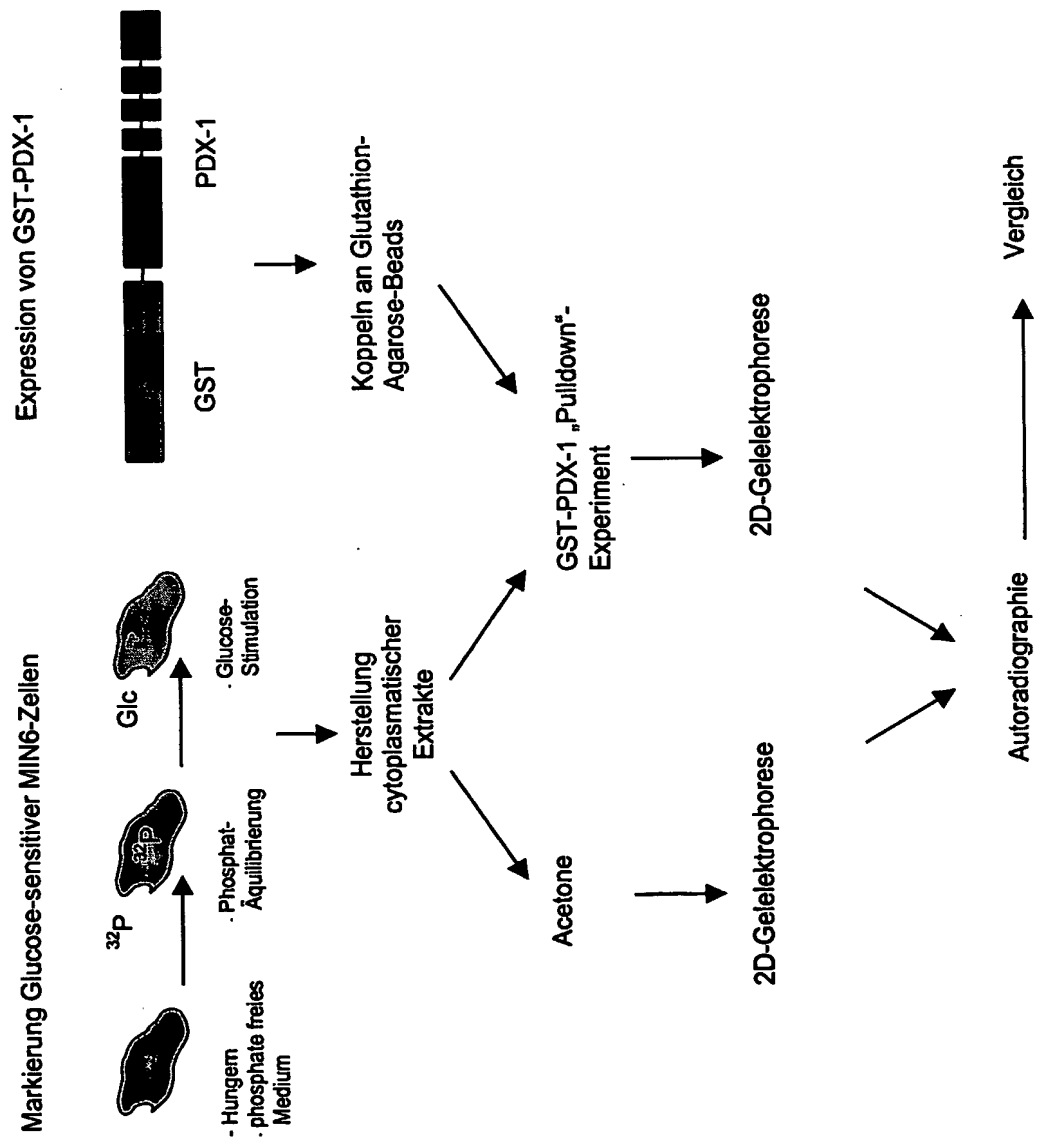


Fig. 2:



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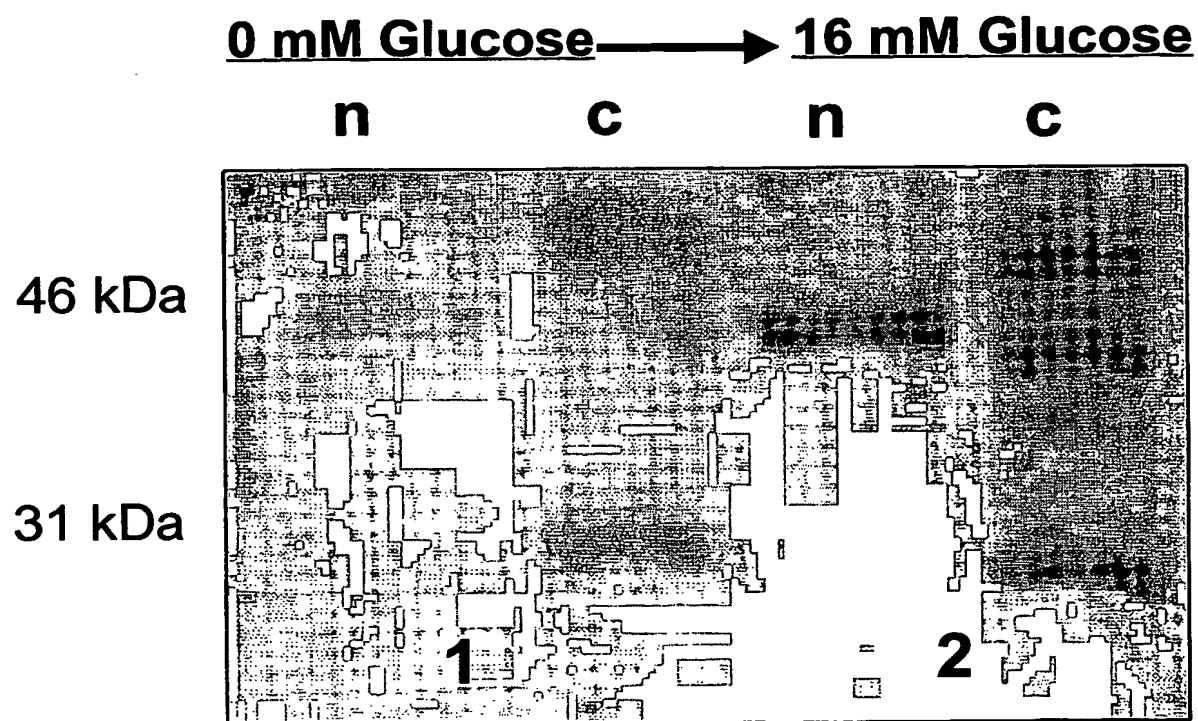
Fig. 3:

Fig. 4:

75 kDa

60 kDa

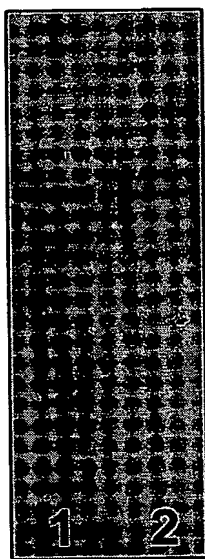


Fig. 5:

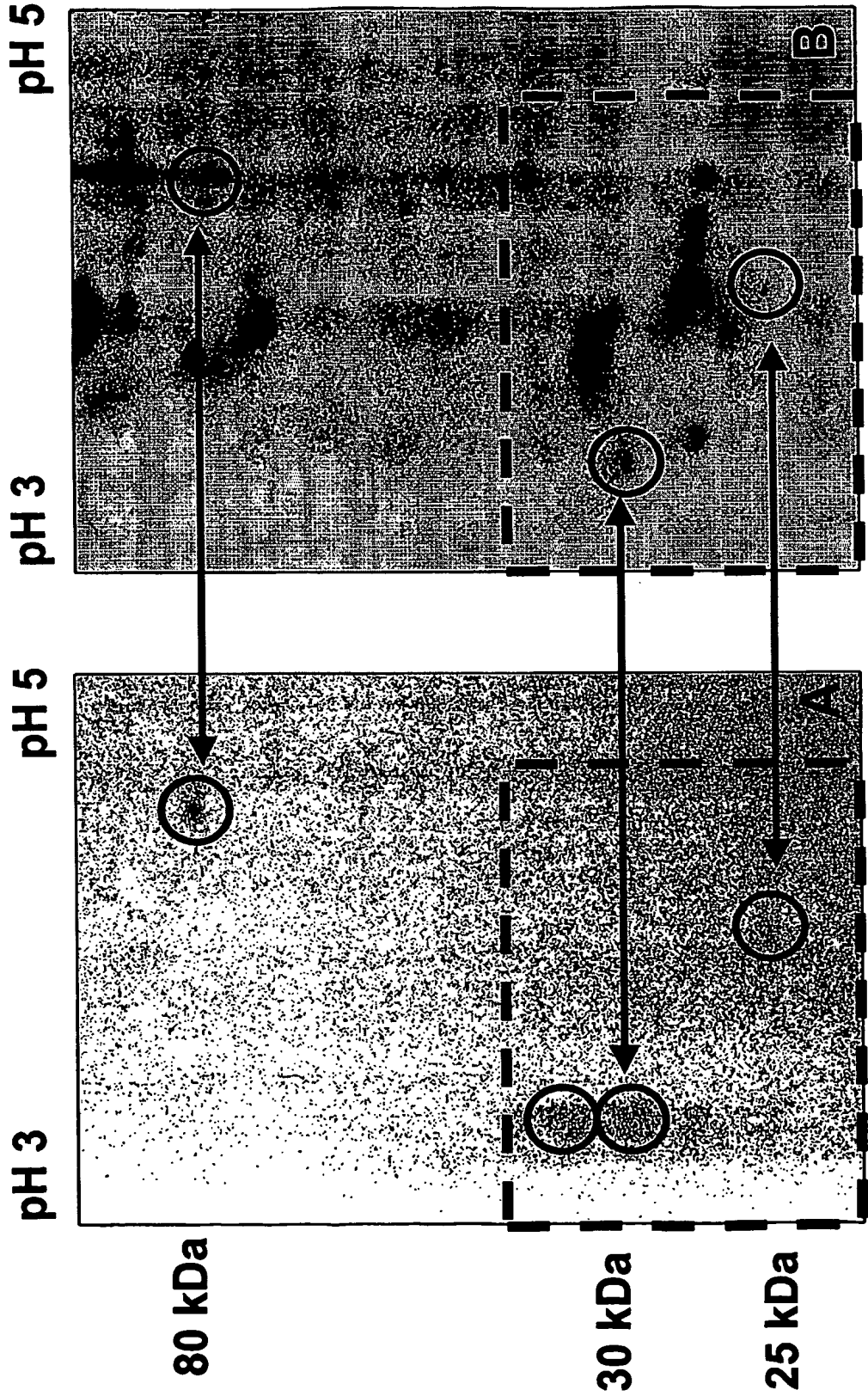


Fig. 6:

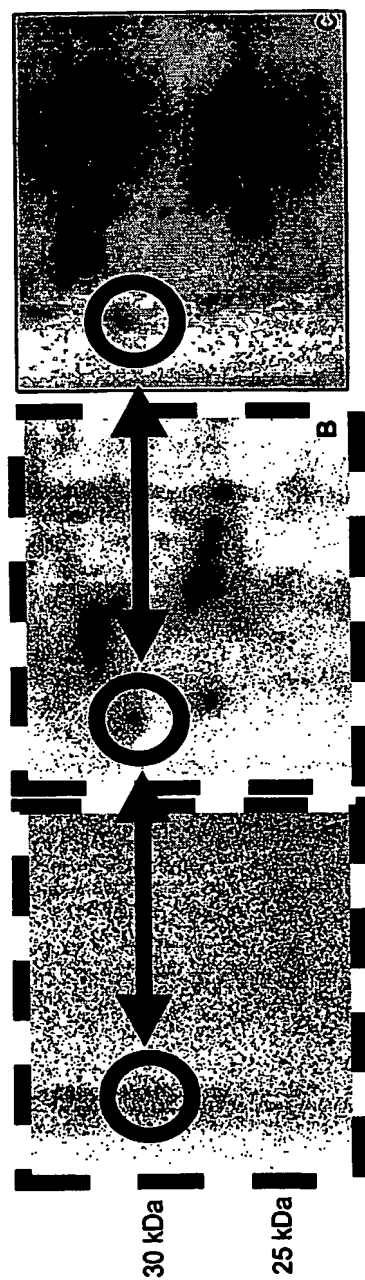


Fig. 7:

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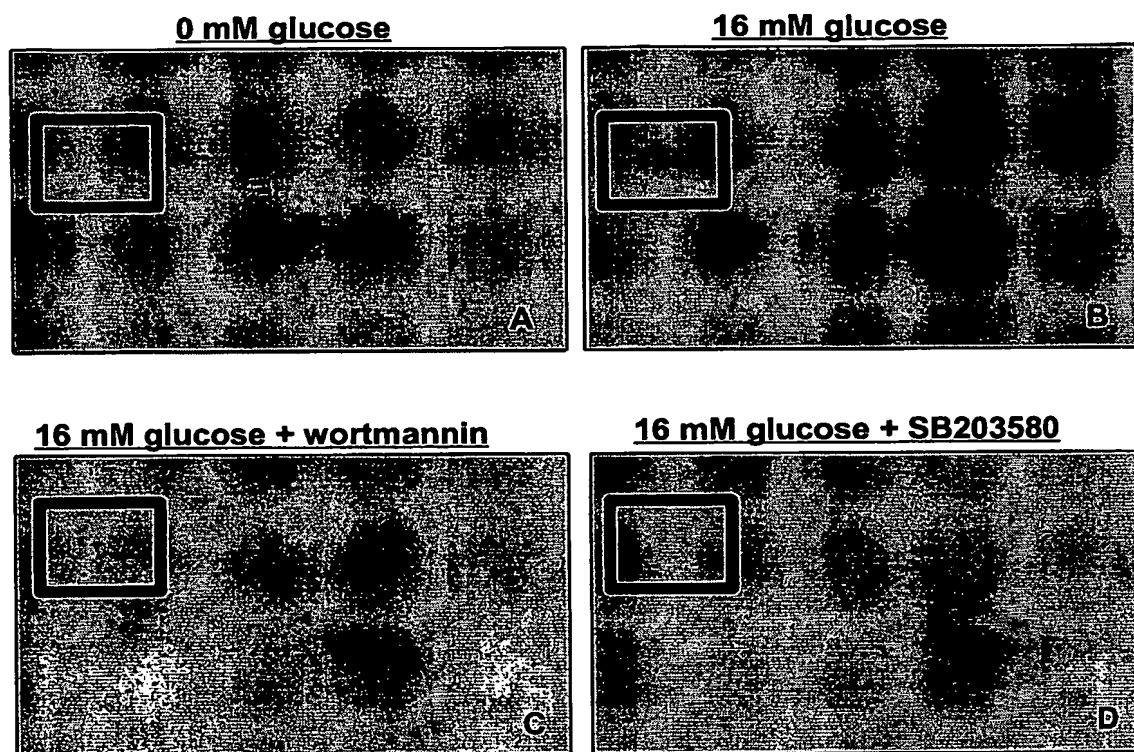


Fig. 8:

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Rang	MOWSE Score	#(%) Massen- Übereinst.	MW (Protein) MW (Da)/pI	Name des Prote
1	615	7/30 (23%)	29174.1/4.63	(BC001440) tyrosin 3- monooxygenase/tryptophan 5- monooxygenase activation protein, epsilon polypeptide (14-3-3 epsilon)

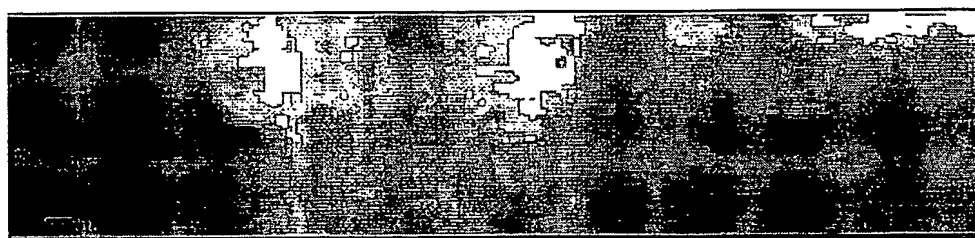
A**30 kDa****1****2****3****B**

Fig. 9:

MNGEEQYYAATQLYKDPCAFQRGPAPEFSASPPACLYMGRQPPP
PPPHFFPGALGALEQGSPPDISPYEVPLADDPVAHLHHHLPAQLALPHPPAGPFPE
GAEPGVLEEPNRVQLPFPWMKSTKAHAWKGQWAGGAYAAEPEENKRTRTAYTRAQLE
LEKEFLFNKYISRPRRVELAVMLNLTERHIKIWFQNRMRKWKKEEDKKRGGGTAVGGG
GVAEPEQDCAVTSGEELLALPPPPPPGGAVPPAAPVAAREGRLPPGLSASPQSSVAP
RRPQEPR

Aminosäuresequenz PDX-1;

283 Aminosäuren

Fig. 10:

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atgaac ggcgaggagc agtactacgc ggccacgcag ctttacaagg
acccatgcgc gttccagcga ggcccggcgc cggagttcag cgccagcccc cctgcgtgcc
tgtacatggg ccgccagccc ccgcgcgcgc cgcgcacccc gtcccttggc gccctgggcg
cgctggagca gggcagcccc ccggacatct ccccgtagca ggtgcccccc ctcccgacg
accccgcggt ggcgcacctt caccaccacc tcccggctca gctcgcgctc ccccacccgc
ccgccgggccc cttcccggag ggagccgagc cgggcgtcct ggaggagccc aaccgcgtcc
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gcggcgccta cgctgcggag ccggaggaga acaagcggac gcgcacggcc tacacgcgcg
cacagctgct agagctggag aaggagttcc tattcaacaa gtacatctca cggccgcgcc
gggtggagct ggctgtcatg ttgaacttga ccgagagaca catcaagatc tggttccaaa
accgccgcat gaagtggaaa aaggaggagg acaagaagcg cggcggcggg acagctgtcg
ggggtggcgg ggtcgcggag cctgagcagg actgcgccgt gacctccggc gaggagcttc
tggcgctgcc gccgccgccg cccccggag gtgctgtgcc gcccgctgcc cccgttgccg
cccgagaggg ccgcctgccg cctggcctta gcgcgtcgcc acagccctcc agcgtcgcgc
ctcggcggcc gcaggaacca cgatga
```

PDX-1 kodierende Nukleotidsequenz;
852 Nukleotide; Nukleotide 850-852: Stopcodon

Fig. 11:

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MDDREDLVYQAKLAEQAERYDEMVESMKKVAGMDVELTVEERNL
LSVAYKNVIGARRASWRIISSIEQKEENKGGEDKMKMIREYRQMVETELKLICDILD
VLDKHLIPAANTGESKVFYKMGDYHRYLAEFATGNDRKEAAENSLVAYKAASDIAM
TELPPTHPIRLGLALNFSVFYIEILNSPDRACRLAKAAFDDAIAELDTLSEESYKDST
LIMQLLRDNLTLWTSDMQGDGEEQNKEALQDVEDENQ

Aminosäuresequenz von 14-3-3 epsilon;
255 Aminosäuren

Fig. 12:

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```
atggatgata gagaggatct ggtgtaccag gcgaagctgg ccgagcaggc tgagcgatac
gacgaaatgg tggagtcaat gaagaaagta gcagggatgg atgtggagct gacagttgaa
gaaagaaacc tcctatctgt tgcataataag aatgtgattg gagctagaag agcctcctgg
agaataatca gcagcattga acagaaagaa gaaaacaagg gaggagaaga caagctaaaa
atgattcggg aatatcggca aatgggtgag actgagctaa agttaatctg ttgtgacatt
ctggatgtac tggacaaaaca cctcattcca gcagctaaca ctggcgagtc caaggttttc
tattataaaa tgaaagggga ctaccacagg tatctggcag aatttgccac aggaaacgac
aggaaggagg ctgcggagaa cagcctagtg gcttataaag ctgctagtga tattgcaatg
acagaacttc caccaacgca tcctattcgc ttaggtcttg ctctcaattt ttccgtattc
tactacgaaa ttcttaattc ccctgaccgt gcctgcaggt tggcaaaagc agcttttgat
gatgcaattg cagaactgga tacgctgagt gaagaaagct ataaggactc tacacttatc
atgcagttgt tacgtgataa tctgacacta tggacttcag acatgcaggg tgacggtgaa
gagcagaata aagaagcgct gcaggacgtg gaagacgaaa atcagtga
```

14-3-3 epsilon kodierende Nukleotidsequenz;
768 Nukleotide; Nukleotide 766-768: Stopcodon

Fig. 13:**a)**

MPGPAAGSRARVYAEVNSLSRSREYWDYEAHVPSWGNQDDYQLVR
KLGRGKYSEVFEAINITNNERVVVKILKPVKKKKIKREVKILENLRGGTNI IKLIDTV
KDPVSKTPALVFHEYINNTDFKQLYQILTDFDIRFMYELLKALDYCHSKGIMHRDVKP
HNV MIDHQQKKRLRIDWGLAEFYHPAQEYNVRVASRYFKGPELLVDYQMYDYSLDMWS
LGCMLASMI FRREPFFHGDNYDQLVRIAKVLGTEELYGYLKKYHIDLDPHFNDILGQ
HSRKRWFENFIHSENRLVSPALDLLDKLLRYDHQQRLTAKEAMEHPYFYPVVKEQSQ
PCADNAVLSSGLTAAR

Aminosäuresequenz von CK II-Untereinheit alpha';

350 Aminosäuren

b)

MSGPVPSRARVYTDVNTHRPREYWDYESHVVEWGNQDDYQLVRK
LGRGKYSEVFEAINITNNEKVVVKILKPVKKKKIKREIKILENLRGGPNITLADIVK
DPVSRTPALVFHEVNNTDFKQLYQILT DYDIRFMYEILKALDYCHSMGIMHRDVKPH
NVMIDHEHRKRLRIDWGLAEFYHPGQEYNVRVASRYFKGPELLVDYQMYDYSLDMWSL
GCMLASMI FRKEPFFHGHNDNYDQLVRIAKVLGTEDLYDYIDKYNIELDPRFNDILGRH
SRKRWERFVHSENQHLVSPALDFLDKLLRYDHQSRLTAREAMEHPYFYT VVKDQARM
GSSSMPGGSTPVSSANMMSGISSVPTPSPLGPLAGSPVIAANPLGMPVPAAGAQQ

Aminosäuresequenz von CK II-Untereinheit alpha;

391 Aminosäuren

c)

MSSSEEVSWISWFCGLRGNEFFCEVDEDIQDKFNLTGLNEQVP
HYRQALDMILDLEPDEELEDNPNQSDLIEQAAEMLYGLIHARYILTNRGIAQM LEKYQ
QGDFGYCPRVYCENQPM LPIGLSDIPGEAMVKLYCPKCMDVYTPKSSRHHHTDGAYFG
TGFPHMLFMVHPEYRPKRPANQFVPRLYGFKIHPMAYQLQLQAASNFKSPVKTIR

Aminosäuresequenz von CK II-Untereinheit beta;

215 Aminosäuren

Fig. 14:

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a)

```

                                     atgcccg gcccgccgc
gggcagcagg gcccggtct acgccgaggt gaacagtctg aggagccgcg agtactggga
ctacgaggct cactccccg gctggggtaa tcaagatgat taccaactgg ttcgaaaact
tggtcgggga aaatatagt aagtatttga ggccattaat atcaccaaca atgagagagt
ggttgtaaaa atcctgaagc cagtgaagaa aaagaagata aaacgagagg ttaagattct
ggagaacctt cgtgggtggaa caaatatcat taagctgatt gacactgtaa aggaccccg
gtcaaagaca ccagcttttg tatttgaata tatcaataat acagatttta agcaactcta
ccagatcctg acagactttg atatccgggt ttatatgtat gaactactta aagctctgga
ttactgccac agcaaggga tcatgcacag ggatgtgaaa cctcacaatg tcatgataga
tcaccaacag aaaaagctgc gactgataga ttgggggtctg gcagaattct atcatcctgc
tcaggagtac aatgttcgtg tagcctcaag gtacttcaag ggaccagagc tcctcgtgga
ctatcagatg tatgattata gcttggacat gtggagtttg ggctgtatgt tagcaagcat
gatctttcga agggaacctt tcttccatgg acaggacaac tatgaccagc ttgttcgcat
tgccaagggt ctgggtacag aagaactgta tgggtatctg aagaagtatc acatagacct
agatccacac ttcaacgata tcctgggaca acattcacgg aaacgctggg aaaactttat
ccatagttag aacagacacc ttgtcagccc tgaggcccta gatcttctgg acaaacttct
gcgatacgac catcaacaga gactgactgc caaagaggcc atggagcacc catacttcta
ccctgtggtg aaggagcagt cccagccttg tgcagacaat gctgtgcttt ccagtggctc
cacggcagca cgatga

```

CK II alpha'-kodierende Nukleotidsequenz;
 1053 Nukleotide; Nukleotide 1051-1053: Stopcodon

b)

```

                                     at gtcgggacct gtgccaagca gggccagagt
ttacacagat gttaatacac acagacctcg agaatactgg gattacgagt cacatgtggt
ggaatgggga aatcaagatg actaccagct gggttcgaaa ttaggccgag gtaaatacag
tgaagtattt gaagccatca acatcacaaa taatgaaaaa gttgttgtaa aaattctcaa
gccagtaaaa aagaagaaaa ttaagcgtga aataaagatt ttggagaatt tgagaggagg
tcccaacatc atcacactgg cagacattgt aaaagaccct gtgtcacgaa ccccgccctt
ggtttttgaa cagtaaaaca acacagactt caagcaattg taccagacgt taacagacta
tgatattcga ttttacatgt atgagattct gaaggccctg gattattgtc acagcatggg
aattatgcac agagatgtca agccccataa tgatcatgatt gatcatgagc acagaaagct
acgactaata gactgggggt tggctgagtt ttatcatcct ggccaagaat ataatgtccg
agttgcttcc cgatacttca aaggctcctga gctacttgta gactatcaga tgtacgatta
tagtttggtat atgtggagtt tgggttgat gctggcaagt atgatcttc ggaaggagcc
atthttccat ggacatgaca attatgatca gttggtgagg atagccaagg ttctggggac
agaagattta tatgactata ttgacaaata caacattgaa ttagatccac gtttcaatga
tatcttgggc agacactctc gaaagcgatg ggaacgcttt gtccacagtg aaaatcagca
ccttgctcagc cctgaggcct tggatttcct ggacaaactg ctgcatatg accaccagtc
acggcttact gcaagagagg caatggagca cccctatttc tacactgttg tgaaggacca
ggctcgaatg gggttcattc gcatgccagg gggcagtagc cccgtcagca gcgccaatat
gatgtcaggg atttcttcag tgccaacccc ttcacccctt ggacctctgg caggctcacc
agtgttgct gctgccaacc cccttgggat gcctgttcca gctgccgctg gcgctcagca
gtaacggccc

```

CK II alpha-kodierende Nukleotidsequenz;
 1182 Nukleotide; Nukleotide 1180-1182: Stopcodon

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c)

```
          atgagca gctcagagga ggtgtcctgg atttcctggt tctgtgggct
ccgtggcaat gaattcttct gtgaagtgga tgaagactac atccaggaca aatttaattct
tactggactc aatgagcagg tccctcacta tcgacaagct ctagacatga tcttggacct
ggagcctgat gaagaactgg aagacaaccc caaccagagt gacctgattg agcaggcagc
cgagatgctt tatggattga tccacgcccg ctacatcctt accaaccgtg gcatcgccca
gatgttgga aagtaccagc aaggagactt tggttactgt cctcgtgtgt actgtgagaa
ccagccaatg cttcccattg gcctttcaga catcccaggt gaagccatgg tgaagctcta
ctgccccaaag tgcattggatg tgtacacacc caagtcatca agacaccatc acacggatgg
cgcctacttc ggcactgggt tccctcacat gctcttcatt gtgcatcccg agtaccggcc
caagagacct gccaaaccagt ttgtgcccag gctctacggt ttcaagatcc atccgatggc
ctaccagctg cagctccaag ccgccagcaa cttcaagagc ccagtcaaga cgattcgctg
a
```

CK II beta-kodierende Nukleotidsequenz;
648 Nukleotide; Nukleotide 646-648: Stopcodon

Fig. 15:

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MPAAKKQKLSSDENSNPELSGDENDDAVSIESGTINTERPDTPTN
TPNAPGRKSWGKGKWKSKKCKYSFKCVNSLKEDHNQPLFGVQFNWHSKEGDPLVFATV
GSNRVTLYECHSQGEIRLLQSYVDADADENFYTCAWTYDSNTSHPLLAVAGSRGIIRI
INPITMQCIKHVYVGHGNAINELKFHPRDPNLLLSVSKDHALRLWNIQTDTLVAIFGGV
EGHRDEVLSADYDLLGEKIMSCGMDHSLKLWRINSKRMMAIKESYDYNPNKTNRPFI
SQKIHFPDFSTRDIHRNYVDCVRWLGDLLLSKSCENAIVCWKPGKMEDDIDKIKPSES
NVTILGRFDYSQCDIWYMRFSMDFWQKMLALGNQVGKLYVWDLEVEDPHKAKCTTLTH
HKCGAAIRQTSFSRDSSILIAVCDDASIWRWDRLR

Aminosäuresequenz der kurzen EED-Isoform;

427 Aminosäuren

Fig. 16:

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```
                                atgcct gcggccaaga agcagaagct
gagcagtgac gagaacagca atccagaact ctctggagac gagaatgatg acgctgtcag
tatagaaagt ggtacaaaca ctgaacgccc tgatacacct acaaacacgc caaatgcacc
tggaaggaaa agttggggaa agggaaaatg gaagtcaaag aaatgcaaat attctttcaa
atgtgtaaat agtctcaagg aagatcataa ccaaccattg tttggagtgc agtttaactg
gcacagtaaa gaaggagatc cattagtgtt tgcaactgta ggaagcaaca gagttacctt
gtatgaatgt cattcacaag gagaaatccg gttgttgcaa tcttacgtgg atgctgatgc
tgatgaaaac ttttacactt gtgcatggac ctatgatagc aatacgagcc atcctctgct
ggctgtagct ggatctagag gcataattag gataataaat cctataacaa tgcagtgtat
aaagcactat gttggccatg gaaatgctat caatgagctg aaattccatc caagagatcc
aaatcttctc ctgtcagtaa gtaaagatca tgctttacga ttatggaata tccagacgga
cactctggtg gcaatatttg gaggcgtaga agggcacaga gatgaagttc taagtgctga
ttatgatctt ttgggtgaaa aaataatgtc ctgtggtatg gatcattctc ttaaactttg
gaggatcaat tcaaagagaa tgatgaatgc aattaaggaa tcttatgatt ataatccaaa
taaaactaac aggccattta tttctcagaa aatccatttt cctgattttt ctaccagaga
catacatagg aattatgttg attgtgtgcg atggtttaggc gatttgatac tttctaagtc
ttgtgaaaat gccatttgtt gctggaaacc tggcaagatg gaagatgata tagataaaat
taaaccacgt gaatctaatt tgactattct tgggcgattt gattacagcc agtgtgacat
ttggtacatg aggttttcta tggatttctg gcaaaagatg cttgcattgg gcaatcaagt
tggcaaactt tatgtttggg atttagaagt agaagatcct cataaagcca aatgtacaac
actgactcat cataaatgtg gtgctgctat tcgacaaacc agtttttagca gggatagcag
cattcttata gctgtttgtg atgatgccag tatttggcgc tgggatcgac ttcgataa
```

Nukleotidsequenz, die für die kurze EED-Isoform kodiert;
1284 Nukleotide; Nukleotide 1282-1284: Stopcodon

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